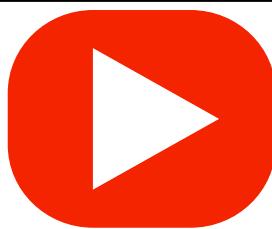


Examples



Workout

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Question 1: Make y the subject of each of the following

(a) $y + w = c$	(b) $y - p = m$	(c) $m + y = s$
(d) $y - 2g = n$	(e) $3y = c$	(f) $ay = w$
(g) $\frac{y}{c} = w$	(h) $\frac{y}{a} = 2c$	(i) $a = y + p$
(j) $c = y - k$	(k) $y^2 = s$	(l) $y^3 = x$
(m) $\sqrt{y} = g$	(n) $\pi y = c$	(o) $n - y = t$
(p) $ry = c$	(q) $4\pi y = b$	(r) $y + 7t = c + r$
(s) $\frac{r}{y} = w$	(t) $y^2 = k + x$	(u) $A = xy$

Question 2: Make x the subject of the following formulae

(a) $4x + c = w$	(b) $dx - t = 8$	(c) $x^2 + 3 = h$
(d) $2x + 2y = P$	(e) $s = x^2 - 3$	(f) $y = xz + s$
(g) $\frac{x}{n} + 2 = w$	(h) $\frac{x}{6} - 5 = w$	(i) $\frac{x+3}{c} = h$
(j) $3y = 4x + 1$	(k) $x^2 + a = v$	(l) $x^3 - 4 = 5y$
(m) $\frac{x+t}{m} = 2c$	(n) $\frac{w+x}{u} = 3z$	(o) $A = \pi x^2$
(p) $A = \frac{1}{2}bx$	(q) $V = abx$	(r) $v^2 = u^2 + 2ax$
(s) $\frac{a+b}{x} = r$	(t) $\frac{5cx}{b} = a$	(u) $\sqrt[3]{\frac{x}{k}} = w$

Question 3: Make c the subject of the following

(a) $(a + c)^2 = t$	(b) $v = u + ac$	(c) $v = \pi c^2 h$
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Apply

Question 1: The circumference of a circle is given as $c = 2\pi r$
Make the radius, r , the subject of the formula.

Question 2: The formula to convert degrees Fahrenheit to degree Celsius is $\frac{5}{9}(F - 32) = C$

Find the formula to convert from degrees Celsius to degrees Fahrenheit by making F the subject.

Question 3: Can you spot any mistakes below?

Make y the subject of the formula:

$$k = y^2 + a$$

$$\sqrt{k} = y + a$$

$$\sqrt{k} - a = y$$

$$y = \sqrt{k} - a$$

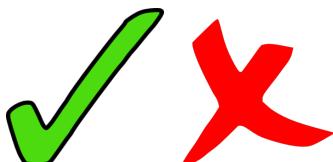
Express v in terms of t

$$t = \frac{v}{4} + 1$$

$$t - 1 = \frac{v}{4}$$

$$\frac{t-1}{4} = v$$

Answers



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